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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/645,337A

DATE: 01/27/2003

TIME: 10:31:45

Input Set : A:\104107.01.txt

Output Set: N:\CRF4\02272003\I645337A.raw

3 <110> APPLICANT: Wu, Keqiang  
 4       Miki, Brian L  
 5       Tian, Lining  
 6       Brown, Dan  
 8 <120> TITLE OF INVENTION: Repressing Gene Expression in Plants  
 10 <130> FILE REFERENCE: 104107.1  
 12 <140> CURRENT APPLICATION NUMBER: US 09/645,337A  
 13 <141> CURRENT FILING DATE: 2000-08-25  
 15 <150> PRIOR APPLICATION NUMBR: US 09/383,971  
 16 <151> PRIOR FILING DATE: 1999-08-27  
 18 <160> NUMBER OF SEQ ID NOS: 14  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1807  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Arabidopsis thaliana  
 27 <400> SEQUENCE: 1

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30	aqaqatcatc	gcagcttc	ctccgaccat	ttqactgcca	ctgtgttattac	aacacacccgt	120
32	tqatctacq	aaaaagaggt	aatggataci	ggggcaatt	cgttgtggcgtc	cggaacctqat	180
34	ggtgtgaaga	ggaaaggttt	ttatattat	gacccgtggg	tccggcaattt	ctaciatggc	240
36	caaggatcatc	ccatqaqcc	ccatcgcaic	cgcatqaccc	atggccctct	cgcuaactac	300
38	ggtttccttc	agcatatgea	ggttttcaag	cccttccctq	cccqcgaaqc	tqatctetgc	360
40	cggttccacq	ccgacqacta	tgttcttct	cccccggca	ttttcccttta	aaaccqacaa	420
42	gttcaqatcc	qccaaacttaa	gggtttcaat	gttggqqaag	actqccctgt	ctttaqacggc	480
44	ctttatctt	tttgcacagac	ctatgttgg	ggatctgttq	gtggctctgt	caagcttaac	540
46	cacggccctc	qcgatattgc	aatcaacttg	gttggqgttc	tccatcacgc	taagaagttgc	600
48	qaggtcttq	gttttcttta	cgtaatgtat	atgttcttag	ctatcttqa	gttctttaag	660
50	caatcatggc	gtgttttttt	tgttqatatt	gtatccacc	acqqqqatgg	agtggaggag	720
52	qattttatq	ctactqacag	ggttatqact	qtttttttgc	ataaaattttq	tgtatacttt	780
54	cccggtacq	gtcacatcca	ugatataqgt	tatgtttagq	gaaagtacta	tttcttcaat	840
56	gttccacttg	atgtatggat	cgatgtatgg	agctatata	tgttttttcaa	ggccatcatq	900
58	ggaaaqgtt	tggaaatttt	ccggccacgg	gttgttqat	tgtttatgg	tgttqacttc	960
60	ctatctgggg	atcggtttagg	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1020
62	aaatttatgt	gatcggttca	tgttccctt	tttgtttttgg	tttgtttttgg	tttttttttt	1080
64	ccggatgttq	cccggttccgt	tttgttacgg	actggatgttq	tttttttttt	tttttttttt	1140
66	gacaatgtgc	ccggatgttq	atattatcaa	tacttttttt	tttttttttt	tttttttttt	1200
68	qttttttttt	aatatgttq	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1260
70	tttttttttt	attttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1320
72	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1380
74	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1440
76	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1500
78	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1560

**RAW SEQUENCE LISTING**

DATE: 07/27/2015  
TIME: 10:52:45

Input Set : A:\104107.01.txt  
Output Set : N:\CRF4\02272003\I645337A.raw

90 **Met** **Asp** **Thr** **Gly** **Gly** **Asn** **Ser** **Ile** **Ala** **Ser** **Gly** **Pro** **Asp** **Gly** **Val** **Lys**  
 91 **<210>** SEQ ID NO: 2  
 92 <211> LENGTH: 501  
 93 <212> TYPE: PRT  
 94 <213> ORGANISM: *Arabidopsis thaliana*  
 95 <400> SEQUENCE: 2  
 96 Met Asp Thr Gly Gly Asn Ser Igu Ala Ser Gly Pro Asp Gly Val Lys  
 97 1 5 10 15  
 98 102 Arg Lys Val Cys Tyr Phe Tyr Asp Pro Glu Val Gly Asn Tyr Tyr Tyr  
 99 103 20 25 30  
 100 106 G.y Gin Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Ala  
 101 107 35 40 45  
 102 110 Leu Leu Ala His Tyr Gly Leu Leu Gln His Met Gln Val Leu Lys Pro  
 103 111 50 55 60  
 104 114 Phe Pro Ala Arg Glu Arg Asp Leu Cys Arg Phe His Ala Asp Asp Tyr  
 105 115 65 70 75 80  
 106 118 Val Ser Phe Leu Arg Ser Ile Thr Pro Glu Thr Gln Gln Asp Gln Ile  
 107 119 85 90 95  
 108 122 Arg Gln Leu Lys Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp  
 109 123 100 105 110  
 110 126 Gly Leu Tyr Ser Phe Cys Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly  
 111 127 115 120 125  
 112 130 Ser Val Lys Leu Asn His Gly Leu Cys Asp Ile Ala Ile Asn Trp Ala  
 113 131 130 135 140  
 114 134 Gly Gly Leu His His Ala Lys Lys Cys Glu Ala Ser Gly Phe Cys Tyr  
 115 135 145 150 155 160  
 116 138 Val Asn Asp Ile Val Leu Ala Ile Leu Glu Leu Leu Lys Gin His Glu  
 117 139 165 170 175  
 118 142 Arg Val Leu Tyr Val Asp Ile Asp Ile His His Gly Asp Gly Val Glu  
 119 143 180 185 190  
 120 144 Glu Ala Phe Tyr Ala Thr Asp Arg Val Met Thr Val Ser Phe His Lys  
 121 147 195 200 205  
 122 150 Phe Gly Asp Tyr Phe Pro Gly Thr Gly His Ile Gin Asp Ile Gly Tyr  
 123 151 210 215 220  
 124 154 Gly Ser Gly Lys Tyr Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile  
 125 155 225 230 235 240  
 126 158 Asp Asp Glu Ser Tyr His Leu Leu Phe Lys Pro Ile Met Gly Lys Val  
 127 159 245 250 255  
 128 162 Met Glu Ile Phe Arg Pro Gly Ala Val Val Leu Gin Cys Gly Ala Asp  
 129 163 260 265 270  
 130 166 Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu Ser Ile Lys Gly  
 131 167 270 280 285  
 132 170 His Ala Glu Cys Val Lys Phe Met Arg Ser Phe Asn Val Pro Leu Leu  
 133 171 290 295 300  
 134 174 Leu Leu Gly Gly Gly Ily Thr Ile Arg Asn Val Ala Arg Cys Trp

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/645,337A

DATE: 02/27/2008

TIME: 20:31:44

Input Set : A:\104107.01.txt

Output Set : N:\CRF4\02272003\I645337A.raw

171 865 310 815 320  
 172 Cys Tyr Glu Thr Gly Val Ala Leu Gly Val Glu Val Glu Asp Lys Met  
 173 325 330 335  
 182 Pro Glu His Glu Tyr Tyr Glu Tyr Pro Glu Pro Asp Tyr Thr Leu His  
 183 340 345 350  
 186 Val Ala Pro Ser Asn Met Glu Asn Lys Asn Ser Arg Gln Met Leu Glu  
 187 355 360 365  
 190 Glu Ile Arg Asn Asp Leu Leu His Asn Leu Ser Lys Leu Gln His Ala  
 191 370 375 380  
 194 Pro Ser Val Pro Phe Gln Glu Arg Pro Pro Asp Thr Glu Thr Pro Glu  
 195 385 390 395 400  
 198 Val Asp Glu Asp Gln Glu Asp Gly Asp Lys Arg Trp Asp Pro Asp Ser  
 199 405 410 415  
 202 Asp Met Asp Val Asp Asp Asp Arg Lys Pro Ile Pro Ser Arg Val Lys  
 203 420 425 430  
 206 Arg Glu Ala Val Glu Pro Asp Thr Lys Asp Lys Asp Gly Leu Lys Gly  
 207 435 440 445  
 210 Ile Met Glu Arg Gly Lys Gly Cys Glu Val Glu Val Asp Glu Ser Gly  
 211 450 455 460  
 214 Ser Thr Lys Val Thr Gly Val Asn Pro Val Gly Val Glu Glu Ala Ser  
 215 465 470 475 480  
 218 Val Lys Met Glu Glu Glu Gly Thr Asn Lys Gly Gly Ala Glu Gln Ala  
 219 485 490 495  
 222 Phe Pro Pro Lys Thr  
 223 500  
 226 <210> SEQ ID NO: 3  
 227 <211> LENGTH: 1800  
 228 <212> TYPE: DNA  
 229 <213> ORGANISM: Arabidopsis thaliana  
 232 <220> FEATURE:  
 233 <221> NAME/KEY: misc\_feature  
 234 <222> LOCATION: (1374)..(1374)  
 235 <223> OTHER INFORMATION: "n" is a or g or c or t  
 237 <400> SEQUENCE: 3  
 238 gtccccacaa ctctatgtaa tgaatttcgc agggcattgtt gacacaaaatt ttgtcttgag  
 240 taaaacttgc qaataqagag agactctgag tgagagagagq attctqaqtg agagacggag  
 242 atggaggcag acgaaagcgg catctctcg ccgtccggac ccgacggcag taagccggca  
 244 qtcagttact tetacggccc gacgcatecqaa gactactact acggtaaagg ccacecgatg  
 246 aaccctcacc ggtatccgtat qgctcatage ctatccattt actatcaat ccacccgtcc  
 248 tttagaaatca gtccgccttag ctctgtqac gcttcggata ccggccggatt ccattccgg  
 250 qagtatqitq acttccctgc ttccgtttcg ccggaaatcta tggccgatcc ttccgttgc  
 252 cggaaacctaa ggccgatccaa tgcggqiqeq qatigtcctg ctccgcggq acttttttgt  
 254 ttccgcgtg ctccgcgg aggttctatt qgtgttgcq tcaaattaa caacacaggac  
 256 qctgatatacg ctatcaattt gggccgtggg ctccacatcg ctatggaaaq cgaggccct  
 258 qggttttgtt atqtaaacgq catcgtaacta gggatctgt; agttgtccaa gatgttttaag  
 260 cgggttctct acatcaat tgcgttccac catqgagaq gqgttggaa agegttttac  
 262 aaccaatqata qaqttatqac tgcatttttccatcaatttccggacttttccatggaaact  
 264 qgtccacataa qagatgttgg ccgtggaaa gggatctttt atgttccaa tggttccatca  
 266 aacgtatgtt tgcacatgtt acgttccgtt acgttccatca qacatgtat ccacaaqqtt

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/645,337A

DATE: 04/22/2013

TIME: 20:31:45

Input file : A:\104107.01.txt

Output File: N:\CRF4\02272003\I645337A.raw

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/645,337A

DATE: 07/17/2005

TIME: 10:31:45

Input Set : A:\104107.01.txt  
Output Set : N:\CRF4\02272003\I645337A.raw

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/645,337A

DATE: 07/13/2003  
TIME: 10:31:46

Input Set : A:\104107.01.txt  
Output Set : N:\CRF4\02272003\I645337A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1374  
Seq#:4; Xaa Pos. 418

**VERIFICATION SUMMARY****PATENT APPLICATION: US/09/645,337A**

DATE: 01/27/2003

TIME: 10:31:46

Input Set : A:\104107.01.txt

Output Set: N:\CRF4\02272003\I645337A.raw

L:282 M:341 W: (46) "L" or "Raw" used, for SEQ ID#:3 after pos.:73%

L:416 M:341 W: (46) "L" or "Raw" used, for SEQ ID#:4 after pos.:416